



United States
Department of
Agriculture

Agricultural
Marketing
Service

Science &
Technology

Monitoring Programs Office
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Manassas, VA 20110

May 16, 2005

TO: See Distribution List

FROM: Martha Lamont
Director

SUBJECT: Semi-Annual Program Plan (July through December 2005) – Pesticide Data Program

This Program Plan serves as the current Statement of Work for the period July through December 2005 for each of the States participating in the Pesticide Data Program (PDP). This document also stipulates work assignments for the Federal facilities participating in PDP. The contents of the Plan have been discussed with the U.S. Environmental Protection Agency (EPA).

I. ADMINISTRATIVE UPDATES

- A. Summary Status:** The 2004 PDP Annual Summary is being drafted and should be ready for Department review November 2005.
- B. Personnel:** Program participants are reminded to keep PDP management informed of any critical personnel vacancies, staffing issues, or expected increases in rent (due to laboratory or office renovation/relocation, etc.). This information is very important for financial management, workload assignments, and to monitor potential backlogs.
- C. USDA-EPA PDP Planning Meeting:** The Monitoring Programs Office (MPO) held a planning meeting on May 5, 2005, with EPA Health Effects Division (HED) representatives to discuss PDP commodities and analytes to be included during 2005-2006.

D. Program Meetings:

Federal/State Meeting: A joint meeting for PDP and the Microbiological Data Program (MDP) will be held September 27-29, 2005, in Denver, Colorado. Administrative, sampling, and technical issues for both programs will be covered. Required attendees are PDP and MDP Administrative, Sampling, and Technical Program Managers. Further information and a draft agenda will be issued at a later date.

Technical/Quality Assurance (QA) Meeting: A meeting for PDP Technical Program Managers and Quality Assurance Officers was held March 22-24, 2005, in Manassas, VA. Agenda topics included administrative and planning issues, mass spectrometry criteria, proficiency testing, ISO 17025 accreditation, analytical standards quality control, remote data entry (RDE), method validation, and general Standard Operating Procedure (SOP) revisions. In addition, presentations were given by representatives from the EPA/HED, U.S. Food and Drug Administration (FDA), and Food Emergency Response Network (FERN). A brief overview of radio frequency identification (RFID) was also presented.

E. QA Committee: Current members of the QA Committee are Harnek Nijjar (Presiding Member, California), Theresa Struble (Michigan), and Heidi Phillips (Colorado).

F. July through December 2005 Proficiency Testing (PT) Program: Listed below is the PT program schedule for July through December 2005 that includes samples for fresh and processed fruit and vegetables, dairy products, grain, and water.

PE SET NO.	SHIPMENT DATE ¹	PROVIDER	COMMODITY	LABORATORY
132	July 2005	CDFA	Strawberries	CA1, MI1
133	August 2005	Ultra	Water	CO1, MN1, MT1, NY1
134	August 2005	CDFA	Wheat	US3
135	September 2005	CDFA	Orange Juice	CA1, WA1
136	October 2005	AOAC	To Be Determined	CA1, FL1, FL2, MI1, NY1, OH1, TX1, WA1
137	November 2005	CDFA	Heavy Cream	US2
138	December 2005	CDFA	Cauliflower	NY1

For samples provided by the California Department of Food and Agriculture (CDFA) Quality Assurance Unit (QAU), please provide analytical methods and any special requirements for sample preparation (e.g., silinization of glassware) to Harnek Nijjar. These samples are subject to compounds specified in the applicable PDP-QC-13 addendum. Analyte levels are determined based on limits of detection (LODs) reported to the PDP central database (validated compounds only). Please remember to report results concurrently to the MPO and the CDFA QAU.

General multi-residue method (MRM) samples for fresh fruit and vegetables will be supplied by AOAC in October 2005. Participants are only evaluated for those residues analyzed by their laboratory and the report provided will clearly identify these pesticides. A list of potential chemicals may be viewed at <http://www.aoac.org/proficiencytesting/resultchecklist.PDF>. Please report results concurrently to AOAC and MPO.

For water, Ultra Scientific will provide proficiency samples based on common analytical profiles and detection limits. For each check sample set, the vendor will supply the laboratory's QAU with a custom mix. The QAU will make dilutions per PDP instructions and fortify one liter of unfiltered tap water with the solution. The spiked sample will then be issued to the laboratory staff for analysis. Results should be reported concurrently to the laboratory QAU and MPO.

¹ Target shipment date for all providers is the second Tuesday of the month

G. Standard Operating Procedures (SOPs):

New and Revised SOPs Released April 1, 2005

- PDP-ADMIN-05, Laboratory Safety
- PDP-LABOP-02, Chain of Custody Procedures
- PDP-LABOP-04, Method SOPs, Extraction, Clean-up, and Analysis
- PDP-LABOP-05, Reagents Preparation, Labeling, and Storage
- PDP-LABOP-06, Glassware Calibration and Cleaning
- PDP-DATA-05, Remote Data Entry (RDE) System
- PDP-DATA-06, Data Review Requirements
- PDP-QC-13, Required Compounds, Marker Pesticides, Process Control Compounds, and PDP Commodity Groupings
- PDP-QC-13 Bottled Water – MN, Commodity Specific Requirements for Bottled Water
- PDP-QC-13 Cantaloupe, Commodity Specific Requirements for Cantaloupe
- PDP-QC-13 Eggplant, Commodity Specific Requirements for Eggplant
- PDP-QC-13 Plums, Commodity Specific Requirements for Plums

New and Revised SOPs Released April 15, 2005

- PDP-ADMIN-02, Personnel and Organization
- PDP-ADMIN-06A, USDA/AMS Quality Assurance Program
- PDP-ADMIN-07, Preparation of SOPs

New and Revised SOPs to be Released July 1, 2005

- PDP-ADMIN-04, Laboratory Equipment
- PDP-DATA-01, Data Reduction and Validation
- PDP-DATA-02, Reporting Results
- PDP-STD-02, Analytical Reference Standards Preparation
- PDP-QC-07, Demonstration of Method Performance
- PDP-QC-13, Required Compounds, Marker Pesticides, Process Control Compounds, and PDP Commodity Groupings
- PDP-QC-13 Cauliflower, Commodity Specific Requirements for Cauliflower
- PDP-QC-15, Mass Spectrometry (MS) Criteria
- PDP-QC-16, ISO 17025 Links to PDP SOPs

New and Revised SOPs to be Released September 1, 2005

- PDP-QC-13 Soybeans, Commodity Specific Requirements for Soybeans

New and Revised SOPs to be Released October 1, 2005

- PDP-LABOP-03, Sample Preparation for Fresh Fruit and Vegetable, Grain, and Processed Commodities
- PDP-INST-01, Maintenance Procedures and Documentation
- PDP-INST02, Equipment Calibration
- PDP-INST-03, Instrument SOPs and Manuals
- PDP-INST-04, Injection Sequence
- PDP-QC-01, Blanks and Spikes Required per Set
- PDP-QC-04, Acceptability Criteria for Process Control and Fortification Recoveries
- PDP-QC-08, Control Charting of Data
- PDP-QC-13 Watermelon, Commodity Specific Requirements for Watermelon

SOPs Archived

- PDP-LABOP-07, Waste Disposal, Archived April 2005
- PDP-LABOP-11, Peach Acute Dietary Risk Survey, Archived April 2005
- PDP-QC-06, GC/Quadrupole Mass Spectrometer Confirmation in EI Mode, Archived January 2005
- PDP-QC-09, Minimum Requirements for Confirmation Using GC/MS-MS, Archived January 2005

H. Electronic Transfer of Data

RDE Version Upgrades: A version upgrade for the Web-based RDE system was installed in February 2005 and another upgrade is planned for June 2005 to fix several identified glitches. A version upgrade for the RDE e-SIF system for laptops/palmtops is planned for September 2005. MPO maintains a Change Request Database to capture all problems identified and suggestions made regarding the RDE system.

RDE Web Addresses: RDE users in the laboratories should be using the SSL (Secure Socket Layer) site address to access the Web-based RDE system on the AMS production Web server. The only difference is the addition of the letter "s" following "http". This SSL technology is used to encrypt all data passed between the user's computer and the central web server. If the secure site is not available, the AMS developmental Web server can be used.

- I. Cooperative Agreements:** The fiscal year 2005 Cooperative Agreements have been finalized and signed. Funds have been obligated and States may begin billing. As a reminder, billing must be monthly and contain a breakdown of sampling vs. testing costs according to the categories listed on the budget tracking template provided by MPO.

II. PROGRAM SAMPLING AND TESTING UPDATES

- A. Sampling Changes and Rotations:** (Draft 3rd and 4th Quarter 2005 Shipping Charts are attached to this document. Actual shipping dates and fact sheets will be sent under separate cover with final versions of the Shipping Charts.)

Sampling Deletions

Pork collection ended *June 30, 2005*. Sampling of pork adipose and muscle tissues was performed by the USDA Food Safety and Inspection Service (FSIS).

Cantaloupe collection ends *September 30, 2005*.

Pear collection ends *September 30, 2005*.

Apple collection ends *December 31, 2005*.

Grape collection ends *December 31, 2005*.

Lettuce collection ends *December 31, 2005*.

Orange collection ends *December 31, 2005*.

Strawberry collection ends *December 31, 2005*.

Frozen green bean collection ends *December 31, 2005*.

Fluid milk collection ends *December 31, 2005*.

Soybean collection ends *December 31, 2005*.

Sampling Additions

Heavy cream will be added *July 1, 2005*. All samples will be sent to the AMS National Science Laboratory (US2), Gastonia, North Carolina for multi-residue testing. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Watermelon will be added *October 1, 2005*. Preliminary plans include sampling only in California, Florida, and Texas and shipment to the respective State laboratory (CA1, FL1, TX1). The sampling may be expanded if marketing data show that good representation is not being achieved. Refer to shipping charts for sampling rates and to current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Applesauce will be added *January 1, 2006*. With the exception of samples from California and Maryland, samples will be sent to the New York (NY1) laboratory. Samples collected in California and Maryland will be sent to the California (CA1) laboratory. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Bananas will be added *January 1, 2006*. With the exception of samples from California and Maryland, samples will be sent to the Tallahassee, Florida (FL1) laboratory. Samples collected in California and Maryland will be sent to the California (CA1) laboratory. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Carrots will be added *January 1, 2006*. With the exception of samples from California and Maryland, samples will be sent to the Michigan (MI1) laboratory. Samples collected in California and Maryland will be sent to the California (CA1) laboratory. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Frozen peas will be added *January 1, 2006*. With the exception of samples from California and Maryland, samples will be sent to the Winter Haven, Florida (FL2) laboratory. Samples collected in California and Maryland will be sent to the California (CA1) laboratory. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Frozen potatoes will be added *January 1, 2006*. With the exception of samples from California and Maryland, samples will be sent to the Washington (WA1) laboratory. Samples collected in California and Maryland will be sent to the California (CA1) laboratory. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Spinach will be added *January 1, 2006*. With the exception of samples from California and Maryland, samples will be sent to the New York (NY1) laboratory. Samples collected in California and Maryland will be sent to the California (CA1) laboratory. Refer to the current commodity fact sheet for sample selection, packaging, and shipping guidelines.

Peanut butter will be added *January 1, 2006*. All samples will be sent to the USDA Grain Inspection, Packers and Stockyards Administration [GIPSA, (US3)] laboratory, Kansas City, Missouri for multi-residue testing.

Poultry meat testing will begin *January 1, 2006*. USDA Food Safety and Inspection Service (FSIS) inspectors will collect and ship poultry meat (muscle) tissue samples to the NSL (US2), Gastonia, North Carolina for multi-residue testing.

Sampling Continuations

Cauliflower, eggplant, grapefruit, orange juice, plums, winter squash, and bottled water will continue to be sampled.

Wheat grain continues to be sampled by USDA GIPSA. Wheat will be sampled through *September 30, 2006*, in order to capture two crop years.

Water survey: Raw and treated drinking water sampling will continue with testing services provided by the Colorado (CO1), Montana (MT1), and New York (NY1) laboratories. Samples will continue to be collected by participating water facility personnel, with a USDA contractor, Great Lakes Environmental Center (GLEC), providing sampling support service.

B. Testing Deletions and Changes:

Testing Deletions

Pork collection ended *June 30, 2005*. This ended multi-residue testing of pork adipose and muscle tissues by the NSL (US2), Gastonia, North Carolina.

Cantaloupe collection ends *September 30, 2005*. This ends multi-residue testing of cantaloupe under SOP PDP-QC-13 Cantaloupe by California (CA1) and Texas (TX1).

Pear collection ends *September 30, 2005*. This ends multi-residue testing of pears under SOP PDP-QC-13 Pears by California (CA1) and Tallahassee, Florida (FL1).

Apple collection ends *December 31, 2005*. This ends multi-residue testing of apples under SOP PDP-QC-13 Apples by California (CA1) and New York (NY1).

Grape collection ends *December 31, 2005*. This ends multi-residue testing of grapes under SOP PDP-QC-13 Grapes by California (CA1) and Tallahassee, Florida (FL1).

Lettuce collection ends *December 31, 2005*. This ends multi-residue testing of lettuce under SOP PDP-QC-13 Lettuce by California (CA1) and New York (NY1).

Orange collection ends *December 31, 2005*. This ends multi-residue testing of oranges under SOP PDP-QC-13 Oranges by California (CA1) and Washington (WA1).

Strawberry collection ends *December 31, 2005*. This ends multi-residue testing of strawberries under SOP PDP-QC-13 Strawberries by California (CA1) and Michigan (MI1).

Frozen green bean collection ends *December 31, 2005*. This ends multi-residue testing of green beans under SOP PDP-QC-13 Green Beans by California (CA1) and Winter Haven, Florida (FL2).

Fluid milk collection ends *December 31, 2005*. This ends multi-residue testing of milk under SOP PDP-QC-13 Milk by the NSL (US2), Gastonia, North Carolina.

Soybean collection ends *December 31, 2005*. This ends multi-residue testing for identified soybean rust compounds under SOP PDP-QC-13 Soybeans by the USDA GIPSA (US3) laboratory, Kansas City, Missouri.

Testing Additions

Heavy cream will be added *July 1, 2005*. Multi-residue testing for all samples will be performed by the NSL (US2), Gastonia, North Carolina. Commodity specific requirements are listed in SOP PDP-QC-13 Milk. Requirements include all current registered uses for fluid milk. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Watermelon will be added *October 1, 2005*. Preliminary plans include sampling only by California, Florida, and Texas and shipment to the respective State laboratory (CA1, FL1, TX1) for multi-residue testing. The sampling may be expanded if marketing data show that good representation is not achieved. Commodity specific requirements are listed in draft SOP PDP-QC-13 Watermelon. Draft requirements include all current registered uses for watermelon. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Applesauce will be added *January 1, 2006*. Multi-residue testing for all samples, except those from California and Maryland, will be performed by the New York (NY1) laboratory. Samples from California and Maryland will be tested by the California (CA1) laboratory. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Apples. Draft requirements include all current registered uses for apples. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Bananas will be added *January 1, 2006*. Multi-residue testing for all samples, except those from California and Maryland, will be performed by the Tallahassee, Florida (FL1) laboratory. Samples from California and Maryland will be tested by the California (CA1) laboratory. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Bananas. Draft requirements include all current registered uses for bananas. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Carrots will be added *January 1, 2006*. Multi-residue testing for all samples, except those from California and Maryland, will be performed by the Michigan (MI1) laboratory. Samples from California and Maryland will be tested by the California (CA1) laboratory. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Carrots. Draft requirements include all current registered uses for carrots. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Frozen peas will be added *January 1, 2006*. Multi-residue testing for all samples, except those from California and Maryland, will be performed by the Winter Haven, Florida (FL2) laboratory. Samples from California and Maryland will be tested by the California (CA1) laboratory. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Peas. Draft requirements include all current registered uses for peas. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Frozen potatoes will be added *January 1, 2006*. Multi-residue testing for all samples, except those from California and Maryland, will be performed by the Washington (WA1) laboratory. Samples from California and Maryland will be tested by the California (CA1) laboratory. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Potatoes. Draft requirements include all current registered uses for potatoes. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Spinach will be added *January 1, 2006*. Multi-residue testing for all samples, except those from California and Maryland, will be performed by the New York (NY1) laboratory. Samples from California and Maryland will be tested by the California (CA1) laboratory. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Spinach. Draft requirements include all current registered uses for spinach. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Peanut butter will be added *January 1, 2006*. Multi-residue testing for all samples will be performed by the USDA GIPSA (US3) laboratory, Kansas City, Missouri. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Peanut Butter. Draft requirements include all current registered uses for peanuts. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Poultry meat testing begins *January 1, 2006*. USDA FSIS inspectors will collect and ship poultry meat (muscle) tissue samples to the NSL (US2), Gastonia, North Carolina for multi-residue testing. Draft requirements include all current registered uses for poultry. Commodity specific requirements are listed in draft revised SOP PDP-QC-13 Poultry. Please contact the PDP Technical Director with any necessary changes to this testing profile.

Testing Changes

The **soybeans** multi-residue testing profile will be modified as of *September 1, 2005*, to include only parent compounds identified as soybean rust chemicals requiring residue data. This list includes selected conazoles, strobilurins, and other compounds that are used/will be used to combat soybean rust.

Testing Continuations

Multi-residue testing for **cauliflower, eggplant, grapefruit, orange juice, plums, winter squash, and bottled water** continue.

Wheat grain continues. Multi-residue testing for all samples is performed by the USDA GIPSA (US3) laboratory, Kansas City, Missouri. Commodity specific requirements are listed in SOPs PDP-QC-13 Wheat.

Water survey: Raw and treated drinking water sampling will continue with testing services provided by the Colorado (CO1), Montana (MT1), and New York (NY1) laboratories. GLEC will continue to provide sampling support services and collection will continue to be performed by participating water facility personnel.

C. Web Site for PDP Information:

For Pesticide Data Program information check out our Internet Web Site:

<http://www.ams.usda.gov/science/pdp/>

Attachment